

L38 ANSWER 3 OF 3 WPIX COPYRIGHT 2003 THOMSON DERWENT on STN
AN 1991-027204 [04] WPIX
TI Fabrication of display with electron-emitting element array - performs
vacuum pumping while emitting electrons from element array NoAbstract Dwg
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DC V05
PA (CANO) CANON KK
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PI JP 02299129 A 19901211 (199104)* <--
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IC H01J009-38; H01J031-15
FS EPI
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MC EPI: V05-L03; V05-L09

L38 ANSWER 2 OF 3 JAPIO (C) 2003 JPO on STN
AN 1990-299129 JAPIO
TI MANUFACTURE OF IMAGE DISPLAY DEVICE
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TETSUYA; TAKEDA TOSHIHIKO
PA CANON INC
PI JP 02299129 A 19901211 Heisei
AI JP 1989-118612 (JP01118612 Heisei) 19890515
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SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1990
IC ICM H01J009-385
ICS H01J009-39; H01J031-15
AB PURPOSE: To dispense with the degassing and surface cleaning of an image display device and process it in a short time by exciting surface conductive type electron emitting elements and emitting electrons, activating the device, releasing the adsorbed gas, and vacuum exhausting when the image display device using surface conductive type electron emitting elements is manufactured.
CONSTITUTION: Electrodes 2 and 3 and an electron emission section 4 are constituted on an insulating substrate 1 to form a surface conductive type electron emitting element 5, and the first spacer 13 with the thickness 20 μ m, a control electrode 7, an electrode substrate 15 with the thickness 50 μ m, a focusing electrode 8, the second spacer 17, an accelerating electrode 11 on a faceplate glass 12, phosphors 9, and a metal back 10 are provided. The thickness of the spacer 17 is set to about 9.9mm so that the distance from the substrate 1 to the metal back 10 is made 10mm, and these components are arranged as shown in the figure. The loci of electron beams 6 flying in a device are expanded as shown by broken lines. The degassing and surface cleaning in this device are performed according to the conditions shown in the table.
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